



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Peter S. Linsley et al.
Serial No.: 09/609,915
Filed: July 3, 2000
Docket: 30436.30USI2
Title: SOLUBLE CTLA4 MUTANT MOLECULES AND USES THEREOF

CERTIFICATE UNDER 37 CFR 1.8

I hereby certify that this paper or fee is being deposited with the United States Postal as first class mail in an envelope addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231 on April 2, 2001.

By: 
Name: Michelle Ann Domingo

Assistant Commissioner for Patents
Washington, D.C. 20231

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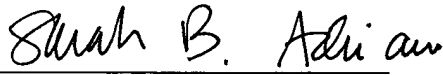
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- ☒ Transmittal sheet, in duplicate, containing Certificate under 37 CFR 1.8.
- ☒ Information Disclosure Statement (37 C.F.R. §1.97 (b)(3))
- ☒ Form 1449 (Information Disclosure Statement)
- ☒ Exhibits 1-114
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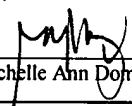
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Peter S. Linsley et al. **Examiner:** Not Yet Known
Serial N .: 09/609,915 **Group Art Unit:** 1641
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By: 
Richelle Ann Domingo

INFORMATION DISCLOSURE STATEMENT (37 C.F.R. §1.97(b)(3))

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

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**OFFICE OF PETITIONS
DEPUTY A/C PATENTS**

With regard to the above-identified application, the items of information listed on the enclosed Form 1449 are brought to the attention of the Examiner. They are as follows:

- Alzari et al., Ann. Rev. Immuno. 6:555 (1988). (Exhibit 1)
- Azuma, M. et al. 1993 *Nature* 366:76-79 (Exhibit 2)
- Broach, 1983 *Meth. Enz.* 101:307 (Exhibit 3)
- Caux, C., et al. 1994 *J. Exp. Med.* 180:1841-1848 (Exhibit 4)
- Clarke et al., 1983 *Meth. Enz.* 101:300 (Exhibit 5)
- Clayton et al., Nature 339:548 (1989). (Exhibit 6)
- Cohen, 1972 *Proc. Natl. Acad. Sci. USA* 69:2110 (Exhibit 7)
- Dash, B., et al. 1994 *J. Gen. Virol.* 75:1389-97 (Exhibit 8)

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Page 2

- Damle et al., J. Immunol. 139:1501 (1987). (Exhibit 9)
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- Damle, et al., Proc. Natl. Acad. Sci. 78:5096 (1981). (Exhibit 11)
- Dariavach et al., Eur. Journ. Immunol. 18:1901-1905 (1988). (Exhibit 12)
- Falk, K., et al. 1993 *Cell. Immunol.* 150:447-52 (Exhibit 13)
- Faustman, D. and Coe, C. *Science* 252:1700 (1991). (Exhibit 14)
- Fiers, et al., 1978 *Nature* 273:113 (Exhibit 15)
- Fink et al., Prog. Clin. Pathol., 9:121-33 (1984 (Exhibit 16)
- Freeman 1993(a) *Science* 262:909-911 (Exhibit 17)
- Freeman, G.J. et al. 1993(b) *J. Exp. Med.* 178:2185-2192 (Exhibit 18)
- Freireich, E.J., et al. (Quantitative Comparison of Toxicity of Anticancer Agents in Mouse, Rat, Hamster, Dog, Monkey and Man. *Cancer Chemother, Rep.*, 50, No.4, 219-244, May 1966 (Exhibit 19)
- Fujikawa, K. et al. 1994 *Virology* 204:789-93 (Exhibit 20)
- Gerard, C. et al. 1994 *Neuroscience* 62:721(Exhibit 21)
- Greene, J. et al. 1996 *J. Biol. Chem.* 271:26762 (Exhibit 22)
- Goeddel, et al., 1980 *Nucleic Acids Res.* 8:4057 (Exhibit 23)
- Hansen et al., Immunogenetics 10:247-260 (1980). (Exhibit 24)
- Hao, L., Wang, Y., Gill, R. G., Lafferty, K. L. *J. Immunol.* 139:4022 (1987). (Exhibit 25)
- Hathcock, K. L. S., et al. 1994 *J. Exp. Med.* 180:631-640 (Exhibit 26)
- Holland et al., 1978 *Biochemistry* 17:4900 (Exhibit 27)

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- Hsu, S. M., L. Raine, H. Fanger, J. Histochem, Cytochem, 29:577 (1981 (Exhibit 28)
- Ikeda, T., et al. 1994 *Gene* 138:193-6 (Exhibit 29)
- Jenkins and Johnson 1993 *Curr. Opin. Immunol.* 5:361-367 (Exhibit 30)
- Johnsson, B., et al. 1991 *Anal. Biochem.* 198: 268-277 (Exhibit 31)
- Jones, N. H. et al., 1986 *Nature* 323:346-349 (Exhibit 32)
- June et al., Immunology Today 11:211 (1989 (Exhibit 33)
- Karin, et al., Nature 299:797-802 (1982 (Exhibit 34)
- Lafferty, K. J., S. J. Prowse, M. Simeonovic, *Annu. Rev. Immunol.* 1:143 (1983 (Exhibit 35)
- Larsen, C. P., et al. 1994 *J. Immunol.* 152:5208-5219. (Exhibit 36)
- Lasky, L., 1996 *Science* 233:209 (Exhibit 37)
- Ledbetter et al., Proc. Natl. Acad. Sci. 84:1384-1388 (1987 (Exhibit 38)
- Ledbetter et al., Blood 75:1531 (1990 (Exhibit 39)
- Lenschow, D. J. et al., 1993 *Proc. Natl. Acad. Sci. USA* 90:11054-11058 (Exhibit 40)
- Lenschow, D. J. et al. 1992, *Science* 257:789-792 (Exhibit 41)
- Lesslauer et al., Eur. J. Immunol. 16:1289 (1986 (Exhibit 42)
- Linsley, P., et al. 1990 *Proc. Natl. Acad. Sci. USA* 87:5031-5035 (Exhibit 43)
- Linsley, P. S. et al. 1991(a) *J. Exp. Med.* 173:721-730 (Exhibit 44)
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- Linsley, P. S. et al., 1992(a) *Science* 257:792-795 (Exhibit 46)
- Linsley, P. S. et al., 1992(b) *J. Exp. Med.* 176:1595-1604 (Exhibit 47)
- Linsley, P. and Ledbetter, J. 1993 *Annu. Rev. Immunol.* 11:191-212 (Exhibit 48)

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- Luthy et al., 1992, *Nature* 356:83-85 (Exhibit 50)
- Malik, et al., 1989 *Molec. Cell. Biol.* 9: 2847-2853 (Exhibit 51)
- Mathiesen, (1989) *Cancer Lett.*, 44:151-156 (Exhibit 52)
- Morrison, S. L. (1985). *Science* 229, 1202-1207 (Exhibit 53)
- Morrison, S. L., Johnson, M. J., Herzenberg, L. A., and Oi, V. T. (1984). *Proc. Natl. Acad. Sci. USA* 81, 6851-6855 (Exhibit 54)
- Mueller et al. 1989 *Annu. Rev. Immunol.* 7: 445-480 (Exhibit 55)
- Neuberger et al., *Nature*, 312: 604-608 (1984 (Exhibit 56)
- Ohara, J., and W. E. Paul, 1985, *Nature* 315:333 (Exhibit 57)
- Oi et al., *Biotechniques*, 4 (3):214-21 (1986 (Exhibit 58)
- O'Shannessy, D. J., et al., 1993 *Anal. Biochem.* 212:457-468 (Exhibit 59)
- Ricordi, C., Lacy, P. E., Finke, E. H., Olack, B. J., Scharp, D. W., *Diabetes* 37:413 (1988 (Exhibit 60)
- Ricordi, C. et al. *Transplantation* 52:519 (1991(Exhibit 61)
- Rousseaux et al., in *Methods Enzymol.*, 121:663-69, Academic Press (1986 (Exhibit 62)
- Sanger et al., *Proc. Natl. Acad. Sci. USA* 74:5463 (1977 (Exhibit 63)
- Schnek et al., *Cell* 56:47 (1989 (Exhibit 64)
- Schwartz, R. H. 1992 *Cell* 71:1065-1068 (Exhibit 65)
- Seed and Aruffo *Proc. Natl. Acad. Sci.* 84:3365 (1987 (Exhibit 66)
- Senter et al., *Proc. Natl. Acad. Sci. USA*, 85:4842-46 (Exhibit 67)

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- Sheriff et al., 1987 PNAS 84:8075-8079 (Exhibit 69)
- Shimatake, et al., 1981 *Nature* 292:128 (Exhibit 70)
- Smith, D. et al., 1987 *Science* 238:1704 (Exhibit 71)
- Stack, R. M., et al., 1994 *J. Immunol.* 152:5723-5733 (Exhibit 72)
- Stinchcomb et al., 1979 *Nature* 282:39 (Exhibit 73)
- Storb, Blood 68:119-125 (1986 (Exhibit 74)
- Storb and Thomas, Immunol. Rev. 88:215-238 (1985 (Exhibit 75)
- Tan, P. et al., 1993 *J. Exp. Med.* 177:165-173 (Exhibit 76)
- Thiagarajan and Kelley, J. Biol. Chem. 263:3035-3038 (1988 (Exhibit 77)
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- Ravi-Wolf, Z., et al. 1993 *Proc. Natl. Acad. Sci. USA* 90:11182-11186 (Exhibit 85)
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- Zeng Y. J. et al. Transplantation 53:277 (1992 (Exhibit 89)
- Zola et al., in Monoclonal Hybridoma Antibodies: Techniques and Applications, Hurell (ed.) pp. 51-52 (CRC Press, 1982 (Exhibit 90)
- U.S. Patent No. 5,434,131 (Exhibit 91)
- U.S. Patent No. 5,844,095 (Exhibit 92)
- U.S. Patent No. 5,851,795 (Exhibit 93)
- U.S. Patent No. 5,885,796 (Exhibit 94)
- U.S. Patent No. 5,858,776 (Exhibit 95)
- U.S. Patent No. 4,399,216 (Exhibit 96)
- PCT WO93/00431 publ. Jan. 7, 1993 (Exhibit 97)
- PCT WO95/01994 publ. Jan. 19, 1995 (Exhibit 98)
- PCT WO95/33770 publ. Dec 14, 1995 (Exhibit 99)
- PCT WO97/28267 publ. Aug. 7, 1997 (Exhibit 100)
- PCT WO95/03408 publ. Feb. 2, 1995 (Exhibit 101)
- PCT WO99/29883 publ. June 17, 1999 (Exhibit 102)
- PCT WO/97/34883 publ. Aug 25, 1997 (Exhibit 103)
- PCT WO99/39726 publ. Aug. 12, 1999 (Exhibit 104)
- PCT WO99/12584 publ. March 18, 1999 (Exhibit 105)
- PCT WO98/58965 publ Dec. 30, 1998 (Exhibit 106)
- PCT WO97/47732 publ. Dec. 18, 1997 (Exhibit 107)
- PCT WO95/34320 Publ. Dec 21, 1995 (Exhibit 108)

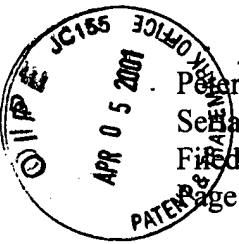
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- PCT WO98/31820 publ. July 23, 1998 (Exhibit 109)
- PCT WO99/29883 publ. June 17, 1999 (Exhibit 110)
- PCT WO99/47558 publ. Sept. 23, 1999 (Exhibit 111)
- PCT WO97/37687 publ. Oct. 16, 1997 (Exhibit 112)
- Hautanen et al., J. Biol. Chem. 264:1437-1442 (1989). (Exhibit 113)
- Kohler and Milstein, Nature, 256:495-97 (1975)(Exhibit 114)

This statement should be considered because it is submitted before the mailing date of the first Office Action on the merits of §1.97(b)(3). In accordance with 37 C.F.R. §1.98(d), copies of each document or other information listed on the enclosed Form 1449 are provided.

No representation is made that a reference is "prior art" within the meaning of 35 U.S.C. §§ 102 and 103 and Applicants reserve the right, pursuant to 37 C.F.R. § 1.131 or otherwise, to establish that the reference(s) are not "prior art." Moreover, Applicants do not represent that the references have been thoroughly reviewed or that any relevance of any portion of a reference is intended.

Consideration of the items listed is respectfully requested. Pursuant to the provisions of M.P.E.P. 609, it is requested that the Examiner return a copy of the attached Form 1449, marked as being considered and initialed by the Examiner, to the undersigned with the next official communication.



Peter S. Linsley et al.
Serial No. 09/609,915
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Page 8

No fee is deemed necessary in connection with the filing of this Information Disclosure Statement. However, if any additional fee is required, authorization is hereby given to charge the amount of any such fee to Deposit Account No. 50-0306.

Respectfully submitted,

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FORM 1449* INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION (Use several sheets if necessary)	Docket Number 30436.30US12	Application Number 09/609,915
	Applicant Peter S. Linsley et al.	
	Filing Date July 3, 2000	Group Art Unit 1641

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,434,131	July 18, 1995 (Exhibit 91)	Linsley et al.			
	5,844,095	December 1, 1998 (Exhibit 92)	Linsley et al.			
	5,851,795	December 22, 1998 (Exhibit 93)	Linsley et al.			
	5,885,796	March 23, 1999 (Exhibit 94)	Linsley et al.			
	5,858,776	January 12, 1999 (Exhibit 95)	Ostrand- Rosenberg et al.			
	4,399,216	August 16, 1983 (Exhibit 96)	Axel et al.			

FOREIGN PATENT DOCUMENTS							
	DOCUMENT NO. WO 93/00431	DATE January 7, 1993 (Exhibit 97)	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	WO 95/01994	January 19, 1995 (Exhibit 98)					
	WO 95/33770	December 14, 1995 (Exhibit 99)					
	WO 97/28267	August 7, 1997 (Exhibit 100)					
	WO 95/03408	February 2, 1995 (Exhibit 101)					
	WO 99/29883	June 17, 1999 (Exhibit 102)					
	WO 97/34883	August 25, 1997 (Exhibit 103)					

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form for next communication to the Applicant.



FORM 1449*

**INFORMATION DISCLOSURE STATEMENT
IN AN APPLICATION**

(Use several sheets if necessary)

Docket Number

30436.30USI2

Application Number

09/609,915

Applicant

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Filing Date

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Group Art Unit

1641

FOREIGN PATENT DOCUMENTS

	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	WO 99/39726	August 12, 1999 (Exhibit 104)					
	WO 99/12584	March 18, 1999 (Exhibit 105)					
	WO 98/58965	December 30, 1998 (Exhibit 106)					
	WO 97/47732	December 18, 1997 (Exhibit 107)					
	WO 95/34320	December 21, 1995 (Exhibit 108)					
	WO 98/31820	July 23, 1998 (Exhibit 109)					
	WO 99/29883	June 17, 1999 (Exhibit 110)					
	WO 99/47558	September 23, 1999 (Exhibit 111)					
	WO 97/37687	October 16, 1997 (Exhibit 112)					

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Alzari et al., <u>Ann. Rev. Immuno.</u> 6:555 (1988). (Exhibit 1)
	Azuma, M. et al. 1993 <u>Nature</u> 366:76-79 (Exhibit 2)
	Broach, 1983 <u>Meth. Enz.</u> 101:307 (Exhibit 3)
	Caux, C., et al. 1994 <u>J. Exp. Med.</u> 180:1841-1848 (Exhibit 4)
	Clarke et al., 1983 <u>Meth. Enz.</u> 101:300 (Exhibit 5)
	Clayton et al., <u>Nature</u> 339:548 (1989). (Exhibit 6)
	Cohen, 1972 <u>Proc. Natl. Acad. Sci. USA</u> 69:2110 (Exhibit 7)

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	Dash, B., et al. 1994 <i>J. Gen. Virol.</i> 75:1389-97 (Exhibit 8)
	Damle et al., <i>J. Immunol.</i> 139:1501 (1987). (Exhibit 9)
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	Faustman, D. and Coe, C. <i>Science</i> 252:1700 (1991). (Exhibit 14)
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		Morrison, S. L. (1985). <u>Science</u> 229, 1202-1207; Haber et al., 1990 (Exhibit 53)
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		Schnek et al., <u>Cell</u> 56:47 (1989 (Exhibit 64)
		Schwartz, R. H. 1992 <u>Cell</u> 71:1065-1068 (Exhibit 65)
		Seed and Aruffo <u>Proc. Natl. Acad. Sci.</u> 84:3365 (1987 (Exhibit 66)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form for next communication to the Applicant.



FORM 1449* INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION (Use several sheets if necessary)		Docket Number 30436.30USI2	Application Number 09/609,915
		Applicant Peter S. Linsley et al.	
		Filing Date July 3, 2000	Group Art Unit 1641
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
		Senter et al., <u>Proc. Natl. Acad. Sci. USA</u> , 85:4842-46 (Exhibit 67)	
		Senter, Cancer Therapy, <u>FASEB J.</u> 4:188-193 (1990). (Exhibit 68)	
		Sheriff et al., 1987 PNAS 84:8075-8079 (Exhibit 69)	
		Shimatake, et al., 1981 <i>Nature</i> 292:128 (Exhibit 70)	
		Smith, D. et al., 1987 <i>Science</i> 238:1704 (Exhibit 71)	
		Stack, R. M., et al., 1994 <i>J. Immunol.</i> 152:5723-5733 (Exhibit 72)	
		Stinchcomb et al., 1979 <i>Nature</i> 282:39 (Exhibit 73)	
		Storb, <u>Blood</u> 68:119-125 (1986 (Exhibit 74)	
		Storb and Thomas, <u>Immunol. Rev.</u> 88:215-238 (1985 (Exhibit 75)	
		Tan, P. et al., 1993 <i>J. Exp. Med.</i> 177:165-173 (Exhibit 76)	
		Thiagarajan and Kelley, <u>J. Biol. Chem.</u> 263:3035-3038 (1988 (Exhibit 77)	
		Toyama and Okayama, 1990 <i>FEBS</i> 268:217-221(Exhibit 78)	
		Tschemper et al., 1980 <i>Gene</i> 10:157 (Exhibit 79)	
		Turka, L.A., 1992 <i>Proc. Natl. Acad. Sci. USA</i> 89:11102-11105 (Exhibit 80)	
		Tzakis, A. G. et al. <u>Lancet</u> 336:402 (1990 (Exhibit 81)	
		Vitetta et al., <u>J. Exp. Med.</u> 134:242 (1971(Exhibit 82)	
		Volkman et al., <u>Proc. Natl. Acad. Sci. USA</u> 78:2528 (1981(Exhibit 83)	
		Wallace, P. M. et al. Transplantation (1994) 58(5): 602-10 (Exhibit 84)	
		Ravi-Wolf, Z., et al. 1993 <i>Proc. Natl. Acad. Sci. USA</i> 90:11182-11186 (Exhibit 85)	
		Wu, Y. et al. 1993 <i>J. Exp. Med.</i> 178:1789-1793 (Exhibit 86)	
		Wysocki and Sato, <u>Proc. Natl. Acad. Sci.</u> 75:2844 (1978 (Exhibit 87)	
		Yokochi, T. et al. 1982 <i>J. Immunol.</i> 128:823-827 (Exhibit 88)	
		Zeng Y. J. et al. Transplantation 53:277 (1992 (Exhibit 89)	
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		Hautanen et al., <u>J. Biol. Chem.</u> 264:1437-1442 (1989). (Exhibit 113)	
		Kohler and Milstein, <u>Nature</u> , 256:495-97 (1975)(Exhibit 114)	
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